




























## PLUMBING PIPING SYMBOLS

_____ - _____	DOMESTIC COLD WATER, COLD WATER
_____ - - - _____	DOMESTIC HOT WATER, HOT WATER
_____ - - - - - _____	DOMESTIC HOT WATER RETURN, HOT WATER RETURN
_____ -MA- _____	MEDICAL AIR
_____ -MV- _____	MEDICAL VACUUM
_____ -D- _____	DRAIN
_____ - - - - - - - _____	VENT, SANITARY
_____ -SS- _____	SOIL, WASTE, OR SANITARY SEWER
_____ -SAN- _____	SANITARY SEWER, BELOW GRADE
_____ -GW- _____	GREASE WASTE, BELOW GRADE
_____ -GV- - - - - _____	GREASE VENT
_____ -140°F- - - - - _____	140°F HOT WATER
_____ -130°F- - - - - _____	130°F HOT WATER
_____ -F- _____	FIRE PROTECTION WATER SUPPLY















## GENERAL PLUMBING SYMBOLS

	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	WATER HAMMER ARRESTOR
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	HOSE BIBB
	NON-FREEZE WALL HYDRANT
	FLOOR DRAIN
	SHOWER DRAIN
	FLOOR SINK
	HUB DRAIN
	PLUGGED TEE
	WALL CLEANOUT
	THERMOMETER
	PRESSURE GAUGE

## PLUMBING VALVE SYMBOLS

	CHECK VALVE
	ANGLE GLOBE VALVE
	BALL VALVE
	TEST PLUG (PRESSURE/TEMPERATURE)
	BALANCING VALVE
	VALVE ON RISER

## SPECIALITIES PLUMBING SYMBOLS

	LOCKED OPEN IN LINE VALVE
	LOCKED CLOSED IN LINE VALVE
	MASTER ALARM PANEL
	AREA ALARM PANEL
	LOCAL ALARM PANEL
	VALVE BOX RECESSED
	PRESSURE AND VACUUM TRANSDUCER SWITCH
	VACUUM SWITCH
	PRESSURE RELIEF VALVE
	MAIN LINE GAUGE
	MEDICAL AIR OUTLET DISS TYPE
	OXYGEN OUTLET DISS TYPE
	MEDICAL VACUUM INLET DISS TYPE
	OXYGEN MANIFOLD

## PLUMBING ABBREVIATIONS

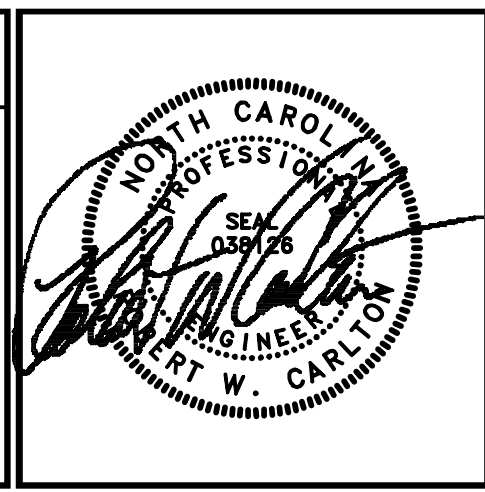
AC	ARCHITECT / ENGINEER	INV.EL	INVERT ELEVATION
A/C	ABOVE CEILING	INV	INVERT
AFG	ABOVE FINISH FLOOR	IPC	INTERNATIONAL PLUMBING CODE
AG	ABOVE FINISH GRADE	IRW	IRRIGATION WATER
AP	AIR GAP		
ASHRAE	ACCESS PANEL	KWH	KILOWATT
	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	KWH	KILOWATT-HOUR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MA	MEDICAL AIR
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MBH	1000 BTUH
		MED	MEDICAL
ASR	AUTOMATIC SPRINKLER RISER	MV	MEDICAL VACUUM
		NC	NORMALLY CLOSED
BF	BELOW FLOOR	NTS	NOT TO SCALE
BG	BELOW GRADE		
		OX	OXYGEN
CFM	CUBIC FEET PER MINUTE	OSCO	OUTSIDE CLEANOUT
COTG	CLEANOUT TO GRADE		
		PG	PRESSURE GAGE
CDWS	DOMESTIC COLD WATER	PSI	POUNDS PER SQUARE INCH
DFU	DRAINAGE FIXTURE UNITS	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
DHWR	DOMESTIC HOT WATER RETURN		
DHWS	DOMESTIC HOT WATER SUPPLY	PSIG	POUNDS PER SQUARE INCH GAGE
DN	DOWN		
DWG	DRAWING	RP	RETICULATION PUMP
EL	ELEVATION		
ET	EXPANSION TANK	SS	SANITARY SEWER
EW	ELECTRIC WATER HEATER	SCFM	STANDARD CUBIC FOOT/MINUTE
		TYP	TYPICAL
F	FAHRENHEIT		
FCO	FLOOR CLEANOUT	V	VENT
FD	FLOOR DRAIN	VP	VACUUM PUMP
FDC	FIRE DEPARTMENT (HOSE) CONNECTION	VE	VENT EXHAUST
FS	FLOW SWITCH	VS	VENT STACK
FU	FITURE UNITS	VTR	VENT THROUGH ROOF
GAL	GALLON	W	WASTE
GCO	GRADE CLEANOUTS	WCO	WALL CLEANOUT
GPH	GALLONS PER HOUR	WH	WALL HYDRANT
GPM	GALLONS PER MINUTE	WH	WATER HEATER
GT	GREASE TRAP	WHA	WATER HAMMER ARRESTER
		WSFU	WATER SUPPLY FIXTURE UNITS
H&CW	HOT AND COLD WATER		
HB	HOSE BIBB	YCO	YARD CLEANOUT

### CONTRACTOR GENERAL NOTES

- A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALED. FIELD VERIFY ALL DIMENSIONS, PIPE SIZES, AND INVERTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.
- B. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY COR OF ANY CONFLICTS.
- C. CONTRACTOR SHALL REMOVE AND REPAIR PORTIONS OF FLOORS, CEILINGS AND/OR SLABS AFFECTED BY PLUMBING MODIFICATIONS. REPAIR SURFACES TO MATCH EXISTING UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
- D. WHERE CHASES ARE NOT PRESENT, CONNECT VENT PIPING TOGETHER IN CEILING SPACE IF POSSIBLE TO AVOID CUTTING THROUGH STUDS.
- E. PRIOR TO PERFORMING ANY PLUMBING WORK OR PURCHASING ANY MATERIALS VERIFY EXACT LOCATION, ROUTING, AND PIPE SIZES, ETC. OF ALL EXISTING WASTE, DRAIN, VENT, DOMESTIC WATER SUPPLY AND RETURN PIPING.
- F. PROVIDE CLEANOUT(S) AS REQUIRED BY INTERNATIONAL PLUMBING CODE, LOCAL CODE, BOTTOM OF STACKS, AND WHERE HORIZONTAL SANITARY SEWER PIPING CHANGES DIRECTION OVER 45°.
- G. NEW 2" SANITARY SEWER PIPING SHALL BE SLOPED A MINIMUM OF TWO PERCENT, ONE-QUARTER INCH PER FOOT. NEW 3" AND 4" SANITARY SEWER PIPING SHALL BE SLOPED A MINIMUM OF ONE PERCENT, ONE-EIGHTH INCH PER FOOT.
- H. ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED.
- I. ALL DOMESTIC COLD WATER SUPPLY, DOMESTIC HOT WATER SUPPLY, AND DOMESTIC HOT WATER RETURN PIPING SHALL BE INSULATED.

[illegible]

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ARCHITECT/ENGINEERS:

 **TOLAND  
MIZELL  
MOLNAR**

590 MEANS ST NW ATLANTA GA 30318

Drawing Title:	
SYMBOLS, ABBREVIATIONS, AND NOTES - PLUMBING	
Approved: Project Director	

Project Title:		
FAYETTEVILLE CLC PROJECT ONE		
Location:		
FAYETTEVILLE, NC		
Date:	Checked:	Drawn:
February 5, 2015	CARLTON	BARNHART

Project Number:	565-131
Building Number:	.
Drawing Number:	P001
Dwg.	of .

NEW WORK KEYED NOTES:

(THIS DRAWING ONLY)

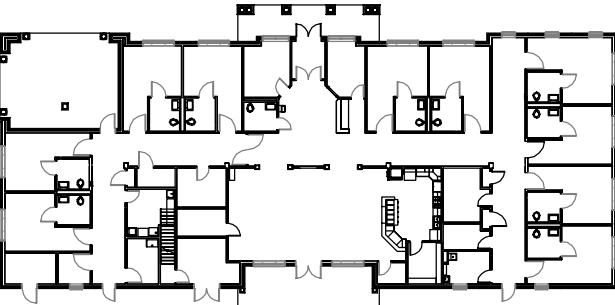
- 3" FLOOR DRAIN, TYPE C (FD-C) OR TYPE D (FD-D) WITH TRAP GUARD.
- 4" SOIL-DN.
- 2" HUB DRAIN ABOVE CEILING FOR HVAC EQUIPMENT.
- 4" FLOOR DRAIN, TYPE E (FD-E) WITH TRAP GUARD.
- 2" WASTE-UP AND 2" VENT-DN.
- 500 GALLON GREASE TRAP.
- 6" SANITARY HOUSE DRAINAGE CONTINUED ON CIVIL PLANS.
- 4" SOIL-DN AND 3" VENT THRU ROOF.
- 3" FLOOR SINK.
- 2" WASTE-DN AND 2" VENT-UP.
- 4" FLOOR DRAIN, TYPE B (FD-B) WITH TRAP GUARD.
- ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3" VENT THRU ROOF.
- 3" GREASE VENT THRU ROOF.
- PROVIDE AND INSTALL NEW ACCESS PANEL.

GENERAL NOTES

- REFER TO WASTE, DRAINAGE, AND VENT ISOMETRIC RISER DIAGRAM FOR PIPE SIZES ON PLUMBING DRAWING PL201.
- SEE ARCHITECTURAL PLANS FOR WALL RATINGS.

WASTE, DRAINAGE, AND VENT PIPING  
10 BED HOME FLOOR PLAN

SCALE: 3/16" = 1'-0"



PLAN ORIENTATION TO BE CONSTRUCTED IN THIS PROJECT

NOTE: ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FLOOR PLAN DRAWINGS OF THE BUILDING ENVELOPE AND INTERIOR FOR THE 10 BEDROOM HOUSES ARE DRAWN OPPOSITE HAND (MIRROR IMAGE) OF THE REQUIRED ORIENTATION. REFERENCE THIS KEY PLAN AND/OR CIVIL AND LANDSCAPE DRAWINGS FOR THE PROPER BUILDING ORIENTATION AND ASSOCIATED WALKS, DRIVES, PARKING AND SITE UTILITIES.

BUILDING ORIENTATION KEY PLAN

FINAL SUBMITTAL

OFFICE OF  
CONSTRUCTION  
AND FACILITIES  
MANAGEMENT

Department of  
Veterans Affairs

CONSULTANTS:

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Drawing Title:

WASTE, DRAINAGE, AND VENT PIPING  
10 BED HOME FLOOR PLAN

Approved: Project Director

Project Title:

FAYETTEVILLE CLC  
PROJECT ONE

Location:

FAYETTEVILLE, NC

Date:

February 5, 2015

Checked:

CARLTON

Drawn:

BARNHART

Project Number:

565-131

Building Number:

.

Drawing Number:

PL101

Dwg. of





**NOTES:**  
(THIS DRAWING ONLY)

- 1 SPRINKLER SYSTEM RISER. REFER TO FIRE PROTECTION DRAWINGS.
- 2 2-1/2" COLD WATER SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.
- 3 2-1/2" COLD WATER-UP. PROVIDE BALL VALVE.
- 4 ELECTRIC WATER HEATERS, THERMOSTATIC MIXING VALVE AND CIRCULATION PUMP. REFER TO WATER HEATER DETAIL ON DRAWING PP601 FOR PIPING CONFIGURATION AND SCHEDULES ON DRAWING PP501.
- 5 PROVIDE AND INSTALL 3/4" NON-FREEZE WALL HYDRANT WITH VACUUM BREAKER (P-801). MOUNT CENTERLINE OF HYDRANT 24 INCHES ABOVE FINISHED GRADE.
- 6 ACCESS PANEL FOR HOT WATER SUPPLY VALVE.
- 7 PROVIDE AND INSTALL 3/4" LOOSE KEY CHROME PLATED HOSE BIBB WITH VACUUM BREAKER (P-804) BELOW LAVATORY. MOUNT CENTERLINE OF HOSE BIBB 18 INCHES ABOVE FINISHED FLOOR.
- 8 PROVIDE AND INSTALL HOT AND COLD WATER COMBINATION FAUCET WITH VACUUM BREAKER (P-802). MOUNT CENTERLINE OF FAUCET 36 INCHES ABOVE FINISHED FLOOR.
- 9 PROVIDE AND INSTALL 3/4" LOOSE KEY CHROME PLATED HOSE BIBB WITH VACUUM BREAKER (P-804). MOUNT CENTERLINE OF HOSE BIBB 24 INCHES ABOVE FINISHED FLOOR. SECURE DOMESTIC WATER PIPING TO WALL WITH PIPE CLAMPS.
- 10 3/4" DOMESTIC COLD WATER-UP TO HOSE BIBB IN MEZZANINE.
- 11 ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 12 MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

**GENERAL NOTES**

- A. REFER TO DOMESTIC WATER DISTRIBUTION ISOMETRIC RISER DIAGRAM FOR PIPE SIZES ON PLUMBING DRAWING PP301.
- B. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.

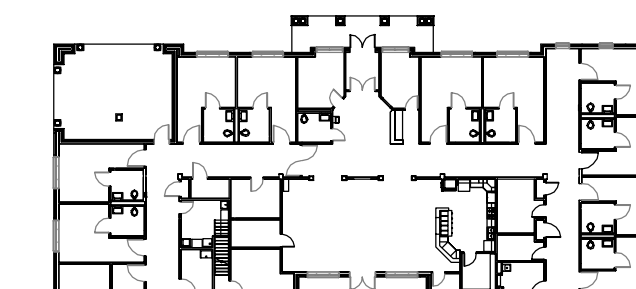
**DOMESTIC WATER DISTRIBUTION  
10 BED HOME FLOOR PLAN**

SCALE: 3/16" = 1'-0"



**DOMESTIC WATER DISTRIBUTION  
10 BED HOME MEZZANINE PLAN**

SCALE: 3/16" = 1'-0"



PLAN ORIENTATION TO BE CONSTRUCTED IN THIS PROJECT

NOTE: ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FLOOR PLAN DRAWINGS OF THE BUILDING ENVELOPE AND INTERIOR FOR THE 10 BEDROOM HOUSES ARE DRAWN OPPOSITE HAND (MIRROR IMAGE) OF THE REQUIRED ORIENTATION. REFERENCE THIS KEY PLAN AND/OR CIVIL AND LANDSCAPE DRAWINGS FOR THE PROPER BUILDING ORIENTATION AND ASSOCIATED WALKS, DRIVES, PARKING AND SITE UTILITIES.

**BUILDING ORIENTATION KEY PLAN**

**FINAL SUBMITTAL**

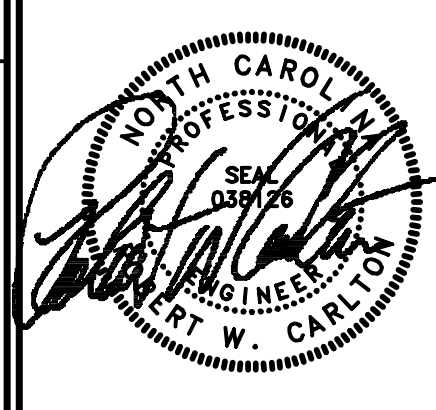
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ARCHITECT/ENGINEERS:



590 MEANS ST NW ATLANTA GA 30318

Drawing Title:

DOMESTIC WATER DISTRIBUTION  
10 BED HOME FLOOR PLAN

Approved: Project Director

Project Title:

FAYETTEVILLE CLC  
PROJECT ONE

Location:

FAYETTEVILLE, NC

Date:

February 5, 2015

Checked:

CARLTON

Drawn:

KELLY

Project Number:

565-131

Building Number:

.

Drawing Number:

PP101

Dwg. of .

**NOTES:**  
(THIS DRAWING ONLY)

- 1 PROVIDE AND INSTALL TWO NEW LOCKABLE FULL PORT, DOUBLE SEAL, BALL-TYPE, QUARTER TURN, THREE PIECE VALVES. SOURCE VALVE SHALL BE LOCKED OPEN, TYPICAL.
- 2 PROVIDE AND INSTALL NEW PRESSURE AND VACUUM TRANSDUCER SWITCH ON MEDICAL AIR, OXYGEN, AND MEDICAL VACUUM PIPING FOR AREA ALARM SYSTEM. LOW PRESSURE LIMIT TO BE SET BY INSTALLER.
- 3 PROVIDE AND INSTALL PRESSURE GAGE.
- 4 PROVIDE AND INSTALL VACUUM GAGE.
- 5 PROVIDE AND INSTALL NEW AREA ALARM PANEL "A" AT APPROXIMATE LOCATION INDICATED. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR HEIGHT. REFER TO SCHEDULE ON PLUMBING DRAWING PP502.
- 6 PROVIDE AND INSTALL NEW TRIPLE ZONE VALVE AND RECESSED BOX ASSEMBLY: MEDICAL AIR, OXYGEN, AND MEDICAL VACUUM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR HEIGHT.
- 7 MEDICAL AIR, OXYGEN, AND MEDICAL VACUUM DROP TO INLET/OUTLET.
- 8 OXYGEN DROP TO MANIFOLD AND CYLINDERS.
- 9 ROUTE PIPING TO DUPLEX MEDICAL VACUUM PUMP (VP-1) AND RECEIVER.
- 10 ROUTE PIPING TO DUPLEX MEDICAL AIR COMPRESSOR (AC-1), AIR DRYERS AND FILTERS.
- 11 PROVIDE AND INSTALL NEW MASTER ALARM PANEL AT APPROXIMATE LOCATION INDICATED. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR HEIGHT. REFER TO SCHEDULE ON PLUMBING DRAWING PP502.
- 12 DUPLEX MEDICAL VACUUM PUMP (VP-1) SYSTEM.
- 13 DUPLEX MEDICAL AIR COMPRESSOR (AC-1) SYSTEM.
- 14 CONNECT TO HOSPITAL MASTER ALARM PANEL.

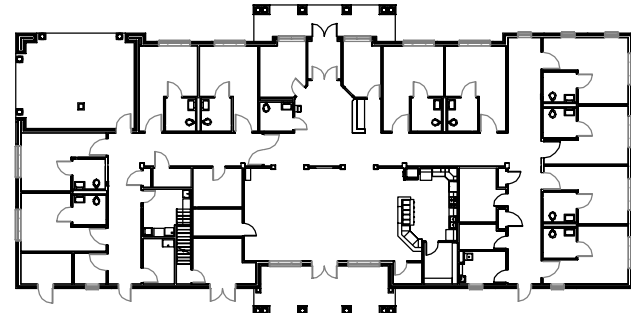
**GENERAL NOTES**

- A. REFER TO MEDICAL GAS AND VACUUM DISTRIBUTION ISOMETRIC RISER DIAGRAM FOR PIPE SIZES ON PLUMBING DRAWING PP302.
- B. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.

**MEDICAL GAS AND VACUUM DISTRIBUTION  
10 BED HOME FLOOR PLAN**

SCALE: 3/16" = 1'-0"

0 4' 8' 12'



PLAN ORIENTATION TO BE CONSTRUCTED IN THIS PROJECT

NOTE : ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FLOOR PLAN DRAWINGS OF THE BUILDING ENVELOPE AND INTERIOR FOR THE 10 BEDROOM HOUSES ARE DRAWN OPPOSITE HAND (MIRROR IMAGE) OF THE REQUIRED ORIENTATION. REFERENCE THIS KEY PLAN AND/OR CIVIL AND LANDSCAPE DRAWINGS FOR THE PROPER BUILDING ORIENTATION AND ASSOCIATED WALKS, DRIVES, PARKING AND SITE UTILITIES.

**BUILDING ORIENTATION KEY PLAN**

**FINAL SUBMITTAL**

OFFICE OF  
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MANAGEMENT

Department of  
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**ARCHITECT/ENGINEERS:**

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Drawing Title:  
**MEDICAL GAS AND VACUUM  
DISTRIBUTION  
10 -BED HOME FLOOR PLAN**

Approved: Project Director

Project Title:  
**FAYETTEVILLE CLC  
PROJECT ONE**

Location:  
**FAYETTEVILLE, NC**

Date:  
February 5, 2015

Checked:  
CARLTON

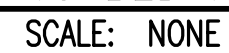
Drawn:  
BARNHART

Project Number:  
**565-131**

Building Number:  
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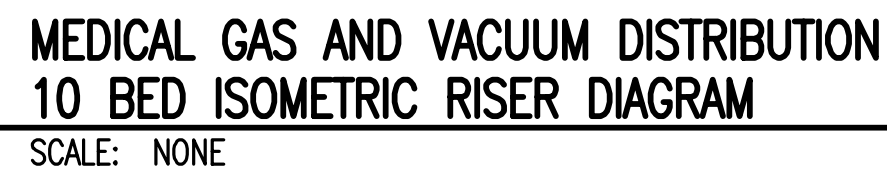
Drawing Number:  
**PP102**

Dwg. of .



- Revisions:
- VA FORM 08-6231  
CN 5119





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ARCHITECT/ENGINEERS:



590 MEANS ST NW ATLANTA GA 30318

Drawing Title:  
MEDICAL GAS AND VACUUM  
DISTRIBUTION  
10 -BED ISOMETRIC RISER DIAGRAM

Approved: Project Director

Project Title:

FAYETTEVILLE CLC  
PROJECT ONE

Location: FAYETTEVILLE NC

Date: February 5, 2015

Checked:	CARLTON
----------	---------

Drawn:  
BARNHART

Project Number:	565-131
Building Number:	

Drawing Number:

PP302  
Dwg. of





one-eighth inch = one foot  
one-quarter inch = one foot  
three-eighths inch = one foot  
one-half inch = one foot  
three-quarters inch = one foot  
one inch = one foot  
one and one-half inches = one foot  
three inches = one foot

FILE NAME: P:\2015\5119-AN\_Tegemine.cad Drawing: 005-5119 PP502 Mod:Schedule.dwg PLOT DATE: 5/19/2022 PLOTTED: Monday, February 02, 2015 4:29pm

VA FORM 08-6231  
CN 5119

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ARCHITECT/ENGINEERS:



590 MEANS ST NW ATLANTA GA 30318

Drawing Title:

MEDICAL GAS AND VACUUM  
SCHEDULES - PLUMBING

Approved: Project Director

Project Title:

FAYETTEVILLE CLC  
PROJECT ONE

Location:

FAYETTEVILLE, NC

Date:

February 5, 2015

Checked:

CARLTON

Drawn:

BARNHART

Project Number:

565-131

Building Number:

.

Drawing Number:

PP502

Dwg. of xx

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Department of  
Veterans Affairs



- ## GENERAL NOTES

- A. HOT AND COLD WATER SUPPLY PIPING SHALL BE INSTALLED FOR PARALLEL WATER HEATERS USING "REVERSE RETURN" METHOD.

[illegible]